



PATENT
Customer No. 22,852
Attorney Docket No. 8303.0042-06
PPG Ref. No. OC-571C1 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Jonathan D. ZOOK *et al.*) Group Art Unit: 1711
)
Application No.: 10/644,389) Examiner: Duc TRUONG
)
Filed: August 19, 2003)
)
For: SEALANTS AND POTTING) Confirmation No.: 6131
FORMULATIONS INCLUDING)
MERCAPTO-TERMINATED)
POLYMERS PRODUCED BY THE)
REACTION OF A POLYTHIOL)
AND POLYVINYL ETHER)
MONOMER)

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

REQUEST TO CORRECT INVENTORSHIP

Pursuant to 37 C.F.R. 1.48(g), Applicants' attorney undersigned below requests a correction of the inventorship in the above-identified application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

on May 19, 2006
Date

Marion G. Eastman
Signature

Marion G. Eastman

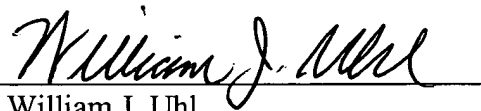
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The application as originally filed had claims 1-21 directed to certain sealant compositions and electrical potting compositions. During the prosecution of the instant application, these claims were cancelled and new claims were added directed to polythioethers and curable compositions comprising the polythioethers. As to original claims 1-21, it is believed the inventive entity of Jonathan D. Zook, Susan E. DeMoss, David W. Jordan, Chandra B. Rao, Hakam Singh, and Ahmed Sharaby was correct. However, due to the amendment to the claims, it is believed that fewer than all of the currently named inventors are the actual inventors of the invention now being claimed in the instant application. The inventors to be deleted are Hakam Singh and Ahmed Sharaby. Therefore, the inventive entity of the claims now being prosecuted in the instant application is: Jonathon D. Zook, Susan E. DeMoss, David W. Jordan and Chandra B. Rao.

Respectfully submitted,

Date: May 19, 2006

By: _____



William J. Uhl

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DECLARATION UNDER RULE 132

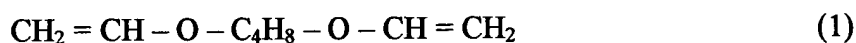
I, Chandra B. Rao, am a listed co-inventor of United States Patent Application Serial No. 10/644,389, filed August 19, 2003. I have been asked by Mr. William J. Uhl, attorney for my employer, PRC-DeSoto International, Inc. ("PRC") and the assignee of the above-mentioned patent application, to give my recollection of the contribution of the inventors to the claims of the above-mentioned patent application.

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on <u>May 19, 2006</u>	<u>Marion G. Eastman</u>
Date	Signature
<u>Marion G. Eastman</u>	
Typed or Printed Name of Person Signing Certificate	

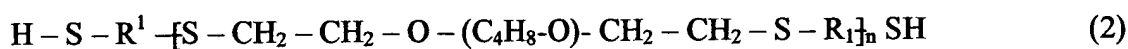
I have reviewed the pending claims in the application, that is, claims 22-27, 31-36 and 41-43. I believe the correct inventive entity for the application should be Jonathan D. Zook, Susan E. DeMoss, David W. Jordan and myself, Chandra B. Rao. Although originally employed by PRC, my three co-inventors are now employed by PBT Brands, Inc. Also, Susan E. DeMoss, formerly was known as Suzanna Gibson. Upon her marriage, she took the name Suzanna DeMoss. However, she subsequently went by the name of Susan E. DeMoss.

My recollection of the contribution of the named inventors to the claims of the above-identified application is as follows:

I reported directly to Jonathan Zook as did my co-inventors Susan E. DeMoss and David W. Jordan. I had a research project under the direction of Jonathan Zook to develop polythiol polymers for subsequent formulation in sealants for aircraft assembly. I had developed a polymer based on the reaction product of dimercaptodiethylsulfide (DMDS), vinyl cyclohexene and triallylcyanurate ("TAC"). Sealant formulations prepared with this polymer had excellent properties for aircraft assembly. However, low temperature flexibility was less than desired. I then became aware that the divinyl ether of butanediol, i.e.,



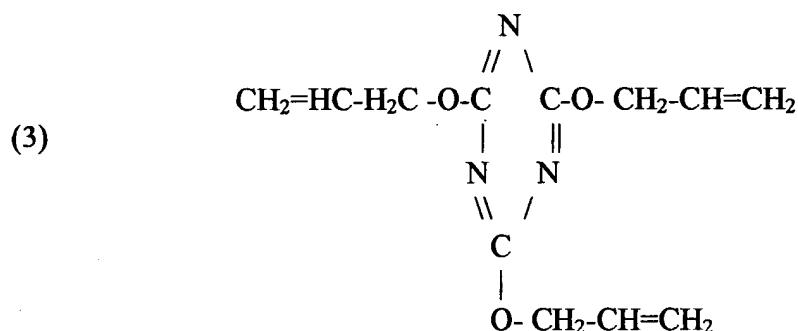
was commercially available. I obtained a sample of this material and prepared polymers by reacting the divinyl ether with dimercaptopropylethylsulfide (methyl-substituted DMDS). The resulting polymer had the following structure:



Where R^1 is $\text{C}_3\text{H}_6 - \text{S} - \text{C}_2\text{H}_4$ and n varies such that the molecular weight of the polymer was within the range of 1,000 and 10,000 Daltons. Sealants formulated with this polymer had

excellent low temperature flexibility. The polymers that I conceived and prepared fell within the scope of claims 22, 23, 26 and 27.

I also prepared polymers that fell within the scope of claim 31. Specifically, it was my idea to react triallylcyanurate ("TAC"),



with a polymer such as those described immediately above. The terminal mercapto groups of the polymer would react with the allyl groups of the TAC to form a polymer such as is shown in claims 31, 32 and 34, with "B" being the residue of the TAC. I note that claim 34 has a typographical error in that it should be dependent on claim 31.

Subsequent to my work summarized above, I was given a different research project and Susan E. DeMoss and Jonathan Zook continued the project. My recollection is that they conceived and developed many polymers using various dimercapto compounds and various divinyl ethers other than those I had used. Ones that come to mind are their use of the dimercapto compound dimercaptodioxaoctane (DMDO) and the divinyl ethers of polyalkylene glycols such as diethylene glycol and triethylene glycol.

Polymers of this nature would fall within the scope of claims 22-27. I also believe they prepared various branched polymers falling within the scope of claim 33. Therefore, I believe Jonathan Zook and Susan E. DeMoss contributed to claims 22-27, 33, 41 and 42.

David Jordan did the sealant formulation work. I personally, and I believe Jonathan Zook and Susan E. DeMoss, would prepare polymers of the type described above and give them to David Jordan to formulate as curable compositions. Mr. Jordan would formulate the polymers with curing agent, cure accelerators, pigments, adhesion promoters and thixotropic agents, and report on the results. I believe David Jordan contributed to claims 35, 36 and 43.

Based on my recollection as shown above, I believe the correct inventive entity on Application Serial No. 10/644,389 is Jonathan D. Zook, Susan E. DeMoss, David W. Jordan and Chandra B. Rao in that all of the named inventors had contributed to various claims in the application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



Chandra B. Rao

5/16/06

Date